Available online at www.sciencedirect.com
SCIENCE DIRECT®
Space Policy 21 (2005) III–V
Space Policy
www.elsevier.com/locate/spacepol

Contents of Volume 21

Number 1

Viewpoints
1 Time is of the essence: making space law more effective
L. Viikari
7 The vision of human spaceflight
W. Mendell
Papers
11 Administrative reforms and the policy logics of Japanese space policy
K. Suzuki
21 Leadership for new US strategic directions
S.P. Worden and R.R. Correll
29 Is the vision of the Earth Observation Summit realizable?
M.K. Macauley
41 Science in the national vision for space exploration: objectives and constituencies of the 'discovery-driven' paradigm
C. Cornelius
49 A new setting for international space cooperation?
C. Riess
55 Brazilian participation in the International Space Station (ISS) program: commitment or bargain struck?
D. Henriques da Silva
Report
65 ...a better model of cooperation? The Brazilian–Ukrainian agreement on launching Cyclone-4 from Alcantara
J. Monserrat Fº
75 Book reviews
81 Calender
83 The Maxim Tarasenko Award

Number 2

iii Highlights
F. Brown
Viewpoints
85 Which direction in space?
J.M. Logsdon
89 International space exploration: Cooperative or competitive?
J. Blamont
93 Europe's space plans and opportunities for cooperation
G. Verheugen
97 A new paradigm for international cooperation in space exploration
P. Finarelli and I. Pryke
101 Amateur satellites: A neglected vehicle for satellite communication education
J. Newport

Papers	105	Planning for the Global Earth Observation System of Systems (GEOSS) *E. Christian*
	111	When will we see a Golden Age of Spaceflight? *G. Maryniak*
	121	Advantages and disadvantages of prizes in a portfolio of financial incentives for space activities *M.K. Macauley*
	129	Perceptions of Apollo: Myth, nostalgia, memory or all of the above? *R.D. Launius*
	141	Issues in the implementation of the International Charter on Space and Major Disasters *A. Ito*
	151	Supporting multilateral environmental agreement with satellite Earth observation *I. Kuriyama*
Reports	161	Punching below its weight: Still the future of space in Australia? *J. Kingwell*
	165	Which direction for space? (Part II) *M. Simpson*
	167	Starting them young: Scotland's Space School *L. Robb*
	169	Publications *F. Brown*
	171	Calendar

Number 3

	iii	Highlights *F. Brown*
Papers	173	Efficiency evaluation of satellite data products in environmental policy *R. Backhaus and B. Beule*
	185	Convergence and technology acceleration in non-safety aeronautical mobile-satellite communications: Policy for the 21st century *T. Brisibe*
	195	Leadership and large-scale technology: The case of the International Space Station *W.H. Lambright*
	205	Will China become a military space superpower? *S.-H. Liao*
	213	The 2002 Space Cooperation Protocol between China and Brazil: An excellent example of South–South cooperation *Y. Zhao*
Reports	221	Improved space safety for astronauts *J.N. Pelton*
	227	Provisions of the Commercial Space Launch Act (CSLA) *R. Hancock*
Book reviews	231	The Privileged Planet: How our Place in the Cosmos is Designed for Discovery *D. Southwood*
	233	Developing Basic Space Science World-Wide: A Decade of UN/ESA Workshops *L. Culhane*
	235	Calendar
	237	UN Basic Space Science Initiative for the International Heliophysical Year

Number 4

	iii	Highlights *F. Brown*
Viewpoints	239	Maintaining US leadership in human spaceflight *J. Johnson-Freese*
	243	Technical and legal issues surrounding space debris—India's position in the UN *M.Y.S. Prasad*
Papers	251	Odyssey: Principles for enduring space exploration *R.R. Correll and N. Peter*
	259	Making space law relevant to basic space science in the commercial space age *S. Swaminathan*
	267	Public–private models for lunar development and commerce *E. Sadeh, D. Livingston, T. Matula and H. Benaroya*
	277	Will we see a regional or global duopoly in the satellite manufacturing industry? The European perspective *J.H. Saleh*
	287	Planetary protection—A microbial ethics approach *C.S. Cockell*
	293	A Ticket pricing strategy for an oligopolistic space tourism market *R.A. Goehlich*
Reports	307	Space spin-offs: Making them known, improving their use *R.A. Goehlich, C. Blanksby, G.M. Goh, Y. Hatano, B. Pečnik and J. Wong*
	313	Global and European challenges for space law at the edge of the 21st century *S. Hobe and J. Neumann*
	317	Book review
	319	Publications
	321	Calendar
	I	Volume Contents and Author Index for Volume 21